

	Application No.	Applicant(s)
Notice of Allowability	09/691,690	BRENNER, MATS A.
	Examiner	Art Unit
	KHAI TRAN	2637
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI- of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subject and MPEP 1308.	application. If not included tion will be mailed in due course. THIS
1. This communication is responsive to the amendment filed in	<u>7/11/2005</u> .	
2. The allowed claim(s) is/are <u>1-6 and 9-45</u> .	•	
3. $\boxtimes$ The drawings filed on <u>14 June 2004</u> are accepted by the Ex	xaminer.	
<ul> <li>4. Acknowledgment is made of a claim for foreign priority un</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application No	ı
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a re ENT of this application.	ply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperson 1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the post attached Examiner's comment regarding REQUIREMENT in the state of the post attached Examiner's comment regarding REQUIREMENT in the state of the post attached Examiner's comment regarding REQUIREMENT in the state of the post attached Examiner's comment regarding REQUIREMENT in the state of the post attached Examiner's comment regarding REQUIREMENT in the state of the post attached Examiner's comment regarding REQUIREMENT in the state of the post attached Examiner's comment regarding REQUIREMENT in the post attached Examiner's comment regarding r	on's Patent Drawing Review (Pi s Amendment / Comment or in th 84(c)) should be written on the dra ne header according to 37 CFR 1.1 sit of BIOLOGICAL MATERIA	e Office action of  awings in the front (not the back) of 21(d).  L must be submitted. Note the
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/02 Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit	6. ☐ Interview Summa Paper No./Mail 8), 7. ☐ Examiner's Ame 8. ☑ Examiner's State	Date
of Biological Material	9.	

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## REASONS FOR ALLOWANCE

1. The amendment filed 7/11/2005 has been entered. Claims 7-8 have been cancelled. Claims 1-6, 9-45 are pending in this Office action.

## Allowable Subject Matter

- 2. Claims 1-6, 9-45 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: Park and Carh fail to disclose wherein the signal distortion detector detects the signal distortion by forming deviations according to the following expressions:

wherein each di, j is a difference between a pair of correlation measurements i and j, wherein Edi, j is an expected value of the difference di, j, and wherein the signal distortion detector compares each of the deviations to a corresponding threshold in order to detect existence of the signal distortions; wherein the signal distortion detector performs averaging in order to reduce effects of thermal and multipath noise; correlating the transmitted signal with a first reference in order to determine a first correlation measurement at a first point along a correlation curve; correlating the transmitted signal with a second reference in order to determine a second correlation measurement at a second point along the correlation curve; correlating the transmitted signal with a third reference in order to determine a third correlation measurement at a third point along the determining a correlation curve; first difference from the first and second correlation measurements; determining a second difference from the second and third correlation

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measurements; directly comparing the first difference to a first threshold; directly comparing the second difference to a second threshold; and, detecting a signal distortion in the satellite based upon the comparisons of the first and second differences to the first and second thresholds.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI TRAN whose telephone number is (571) 272-3019. The examiner can normally be reached on 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAY PATEL can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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